BURNS McDONNELL

PROJECT PROFILE / **RENEWABLE DIESEL PLANT**

NEW FACILITY ADVANCES ALTERNATIVE ENERGY EFFORTS

The Gulf Coast will soon be home to a new renewable diesel plant, which will allow an international manufacturer and marketer of transportation fuels and petrochemicals to reduce its greenhouse gas emissions and meet renewable fuel standard requirements.

INTEGRATED APPROACH OFFERS COST AND SCHEDULE CERTAINTY

A one-stop-shop project delivery method offers a single point of accountability, cost certainty and quick delivery for a complex and technical renewable diesel plant.

An international manufacturer and marketer of transportation fuels and petrochemical products wanted to expand its capacity for renewable diesel. The client sought to develop its third renewable diesel facility, which helps it meet requirements of the renewable fuel standard program, created to reduce greenhouse gas emissions and expand the U.S. renewable fuel sector while reducing reliance on imported oil.

The renewable diesel facility will process animal fats, used cooking oil and inedible corn oil into renewable diesel fuel. This renewable diesel is a drop in replacement to petroleum diesel that can be sold in the California market.

The new facility will be constructed in a different location than the client's other renewable diesel facilities and developed so it fits into existing assets on the Gulf Coast. With a new site location, the client needed to have a clear understanding of the cost and schedule related to the new facility.

This integrated approach supports our delivery of project development services including process engineering, discipline engineering, estimating, project controls and project/program management. Burns & McDonnell will be the engineer-procure-construct contractor for the project, including construction of both the outside battery limit and inside battery limit (ISBL) scopes of work.

Additionally, our project scope includes supporting the feedstock unloading and blending at a remote railroad with supporting tankage; 15 miles of pipelines to feed from the rail yard to the facility; the feed and intermediate product tankage and piping for the ISBL units; the utility infrastructure for the ISBL units; an amine regeneration unit; a sour water stripper unit; the integration in the refinery utility; and process systems including hydrogen supply, renewable diesel pipelines and a renewable diesel rail car loading.

This all-in project delivery method offers one point of accountability, cost certainty and quick delivery. We are seamlessly merging the objectives of the client with the requirements of the renewable fuel standard program. When this project is completed, it is anticipated to be the largest renewable diesel train in the U.S.

PROJECT STATS

CLIENT
Confidential

LOCATION
Gulf Coast

ANTICIPATED COMPLETION
2024

400M
GALLONS PER YEAR

16865-RDP-1220